

# Lithium Iron Phosphate Battery

## Overview

The 51.2V200Ah rechargeable lithium battery is optimized for low rate application which requires high energy density.

## Features

- LiFePO4 battery, more stable and safe .
- Intelligent BMS equipped inside to maintain the battery always work at best condition .
- Max charge and discharge current as 150A which is specially designed for solar energy .
- With equalizer can balance each lithium cell voltage difference as small as 0.05V in a very short time .
- With WiFi communication function, the operating status information of lithium battery pack can be queried through the mobile phone APP .
- The comfortable mood light indicates the SOC remaining capacity through different colors .
- Within solar inverter Modbus-485 communication protocol .
- Excellent standby self-consumption as low as 4mA .
- Automatically output cut off after 30days no charge and discharge to ensure security , also can cut off output by manual operation .

## Battery Specification

### Nominal Characteristics

Nominal Voltage /V	51.2
Nominal Capacity /Ah (25° C , 0.2C)	200

### Mechanical characteristics

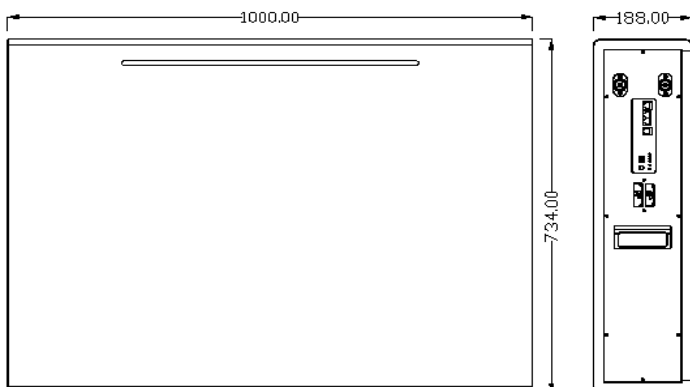
Weight (approximate)/Kg	143.0
Dimension L*W*H /mm	1000*734*188
Terminal	M8

### Electrical characteristics

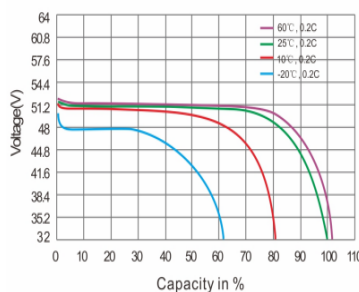
Voltage window/V	44.8 to 58.4
Float charge voltage/V	56.0
Max. continue discharge current/A	100
Max. pulse discharge current/A	150A 1Sec.
Max. continue charge current/A	100

### Operating conditions

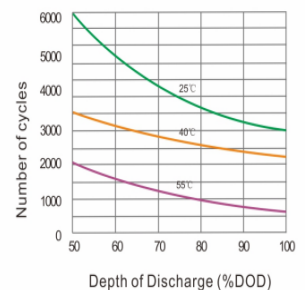
Cycle life (+25°C 0.2C 100%DOD)	> 3000 Cycles
Operating temperature	Discharge -10°C to 50°C Charge 0°C to 50°C
Storage temperature	0 to 30°C
Storage duration	6 months at 25°C
Safety standard	UN38.3,MSDS
IP Degree	IP20



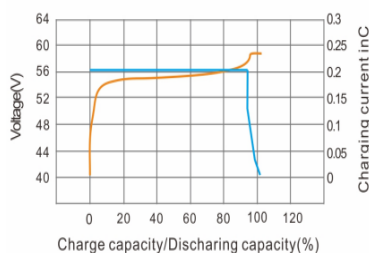
Dis charge curves under diffemet temperatures



Cycle life versus DOD and temperature at 0.2C



0.2C CC-CV charge charavteristic



Self-discharge characteristic

